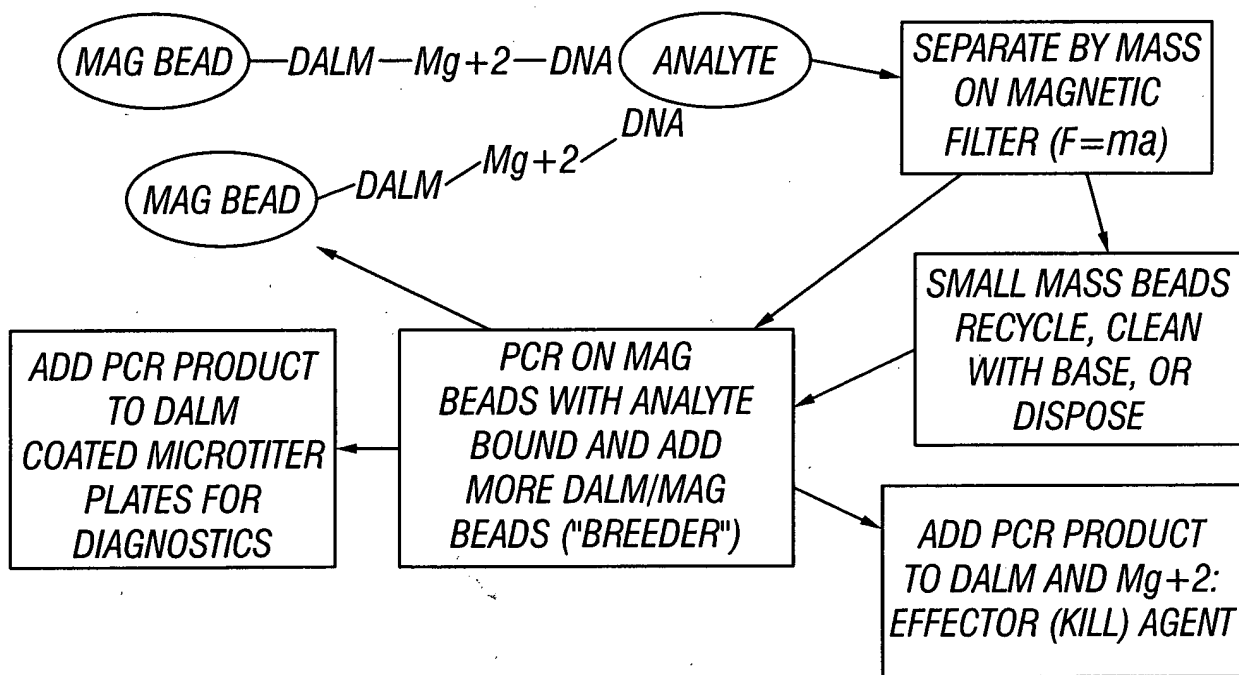
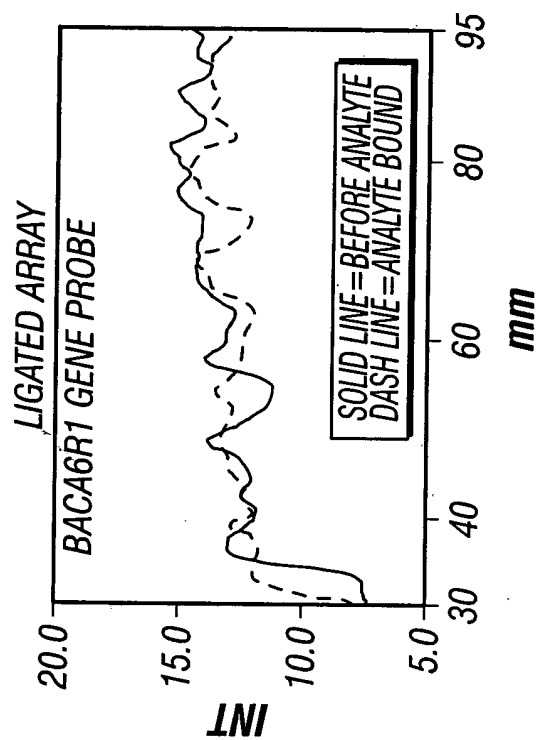
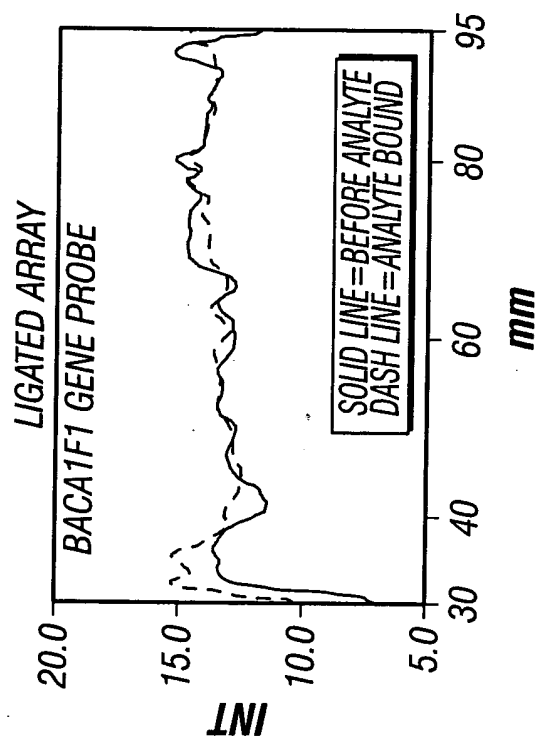
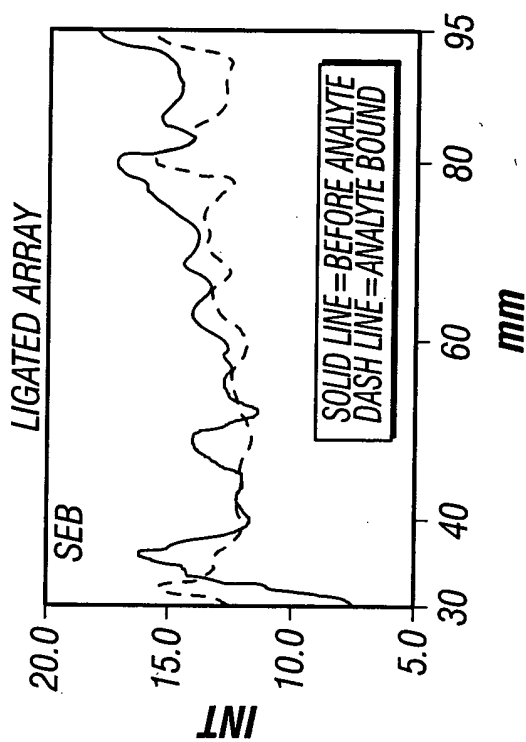
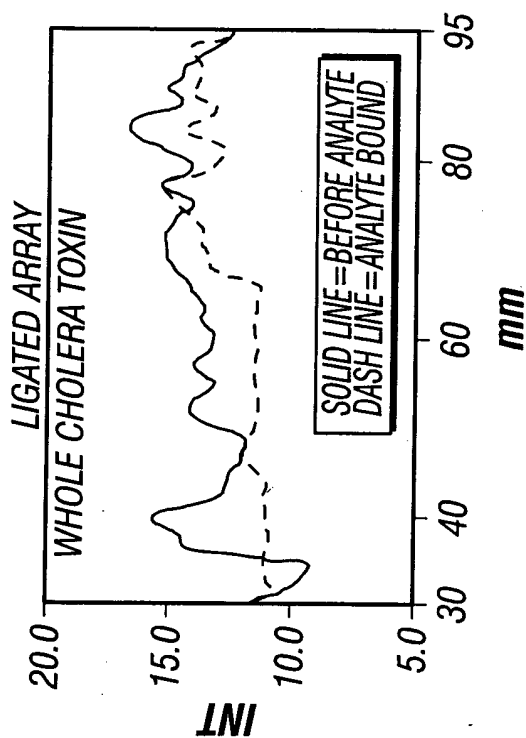


```
graph TD
    LS[★ LIGHT SOURCE] --- P1((PUMP))
    CM[COLLECTOR AND MAGNETIC BEAD MIXER] --> P2((PUMP))
    P2 --> PCE[PHOTO-ELECTROCHEMICAL CELL WITH MAGNETIC ELECTRODE]
    PCE --- CCD[CCD OR PMT]
    PCE --> P3((PUMP))
    P3 --> MF[MAGNETIC FILTER]
    PCE --> VAL[VALVE]
    VAL --> RB[RECYCLE BIN OR DISPOSAL (NEW BEAD SOURCE)]
    VAL --> PTC[PCR THERMAL CYCLER FOR MAGNETIC BEADS]
    RR[REAGENT RESERVOIR(S)] --> PTC
    PTC --> P4((PUMP))
    P4 --> VAL
    DP[DATA PROCESSOR AND CONTROLLER] --> PCE
    DP --> RB
```

**FIG. 2**



**FIG. 3**



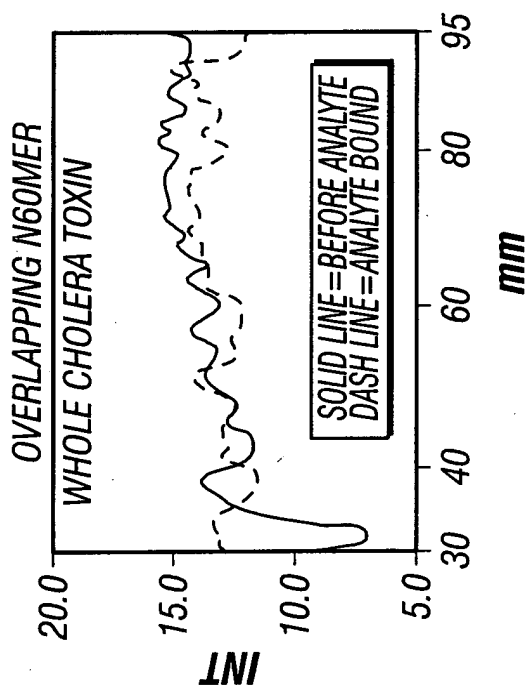


FIG. 4E

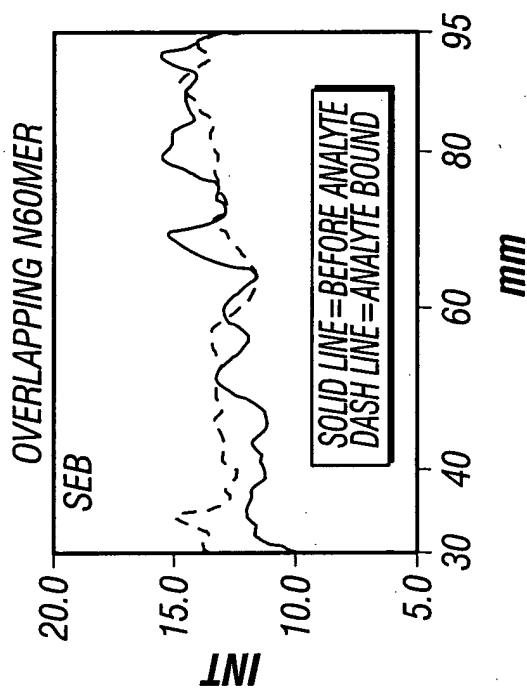


FIG. 4F

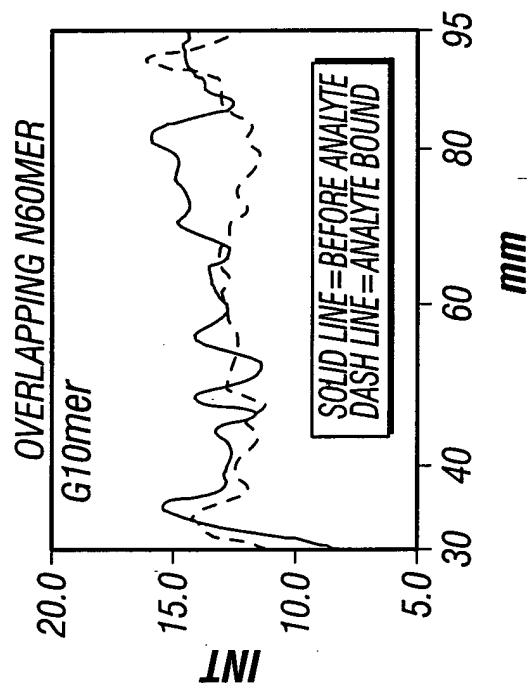


FIG. 4G

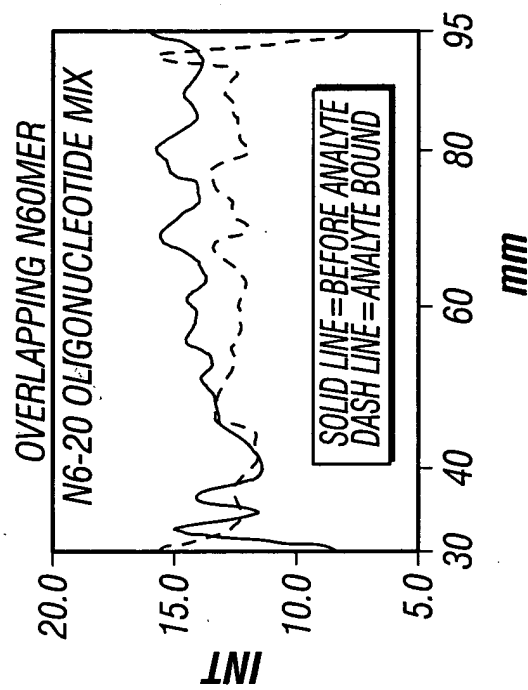
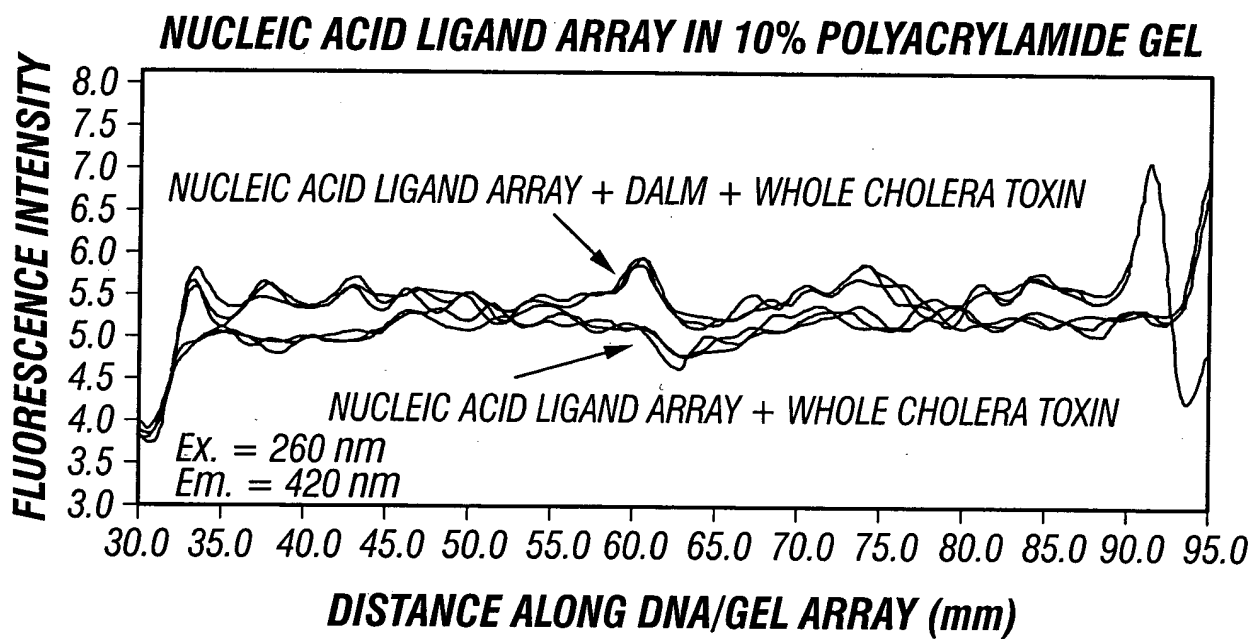
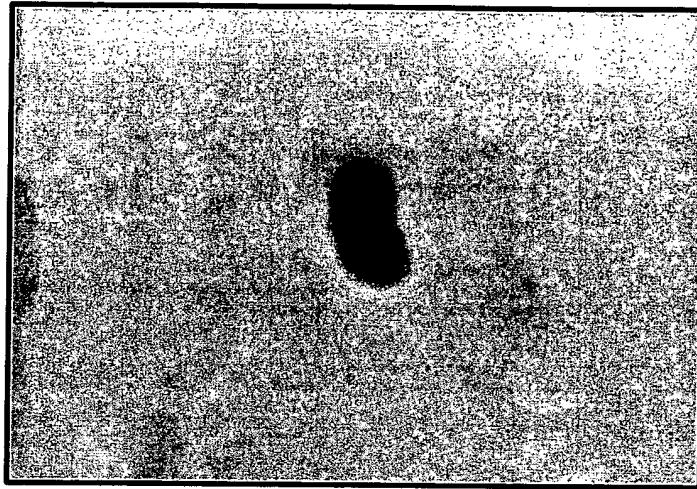


FIG. 4H

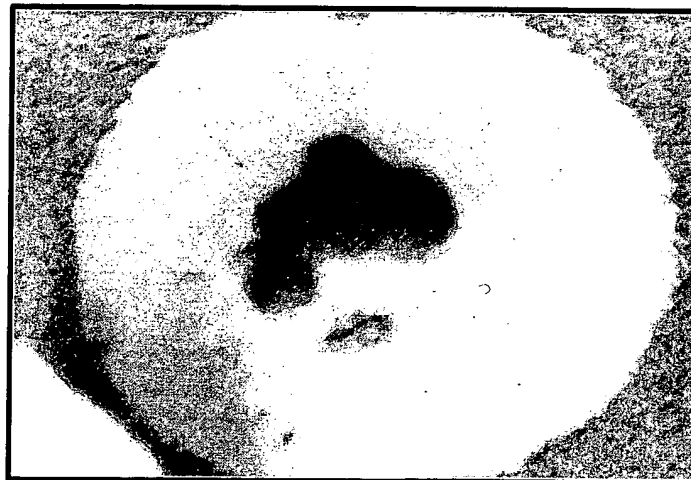


**FIG. 5**



CONTROL SPORE

**FIG. 6A**



HPM EXPOSED WITH DALM

**FIG. 6B**

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